

PATENT

App. Ser. No.: 10/078,605
Atty. Dkt. No. ROC920010345US1
PS Ref. No.: IBMK10345

IN THE CLAIMS:

Please amend the claims as follows:

1. (Previously Presented) A method of maintaining a database for managing a process of a plurality of transactions through two or more applications in a business transaction environment, each application having at least one associated log file, and each transaction being defined by one or more steps configured to complete the transaction, the method comprising:
 - accessing each of the respective associated log files, wherein at least two of the associated log files are of different formats;
 - for each new log entry recorded in the respective associated log file being accessed:
 - (i) determining whether the new log entry comprises one of or more required fields using mapping rules that describe a location and format of at least the one or more required fields in the respective associated log file;
 - (ii) extracting information from the new log entry only if the new log entry comprises the one or more required fields; and
 - (iii) storing the information as a plurality of transaction records to a database.
2. (Previously Presented) The method of claim 1, further comprising receiving a notification message from the respective associated log file indicating that the new log entry has been recorded in the respective associated log file.
3. (Cancelled)
4. (Previously Presented) The method of claim 1, wherein the information is extracted from the new log entry using the mapping rules providing the format and the location of the information in the new log entry.

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5. (Previously Presented) The method of claim 1, further comprising determining whether the plurality of transaction records satisfies an undesirable condition; and executing an action responsive to the undesirable condition if the plurality of transactions satisfies the condition.
6. (Original) The method of claim 5, wherein the condition is whether a number of the plurality of transaction records indicative of active transactions exceeds a predefined numerical limit.
7. (Original) The method of claim 5, wherein the condition is whether any of the plurality of transaction records indicative of active transactions has a time duration exceeding a predefined time limit.
8. (Original) The method of claim 5, wherein executing the action comprises sending a notification message alerting the condition.
9. (Original) The method of claim 5, wherein the action comprises executing a computer program for resolving the condition.
10. (Original) The method of claim 1, wherein the one or more required fields comprises at least one of a transaction identifier, a step identifier, and a time stamp.
11. (Original) The method of claim 10, wherein step identifier is a unique identifier associated with a step of the transaction.
12. (Original) The method of claim 10, wherein the time stamp indicates a time at which the step started.

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13. (Previously Presented) The method of claim 1, wherein the information comprises at least one of a transaction type, a transaction origin, and a transaction destination, the transaction type, the transaction origin and the transaction destination identifying the transaction record.
14. (Original) The method of claim 13, wherein the transaction type describes the type of transaction.
15. (Original) The method of claim 13, wherein the transaction origin describes an entity that originated the transaction.
16. (Original) The method of claim 13, wherein the transaction destination describes a final destination of the transaction.
17. (Original) The method of claim 1, wherein storing the information comprises storing the information to the database as one of a transaction record and a step record, the transaction record being defined by one or more step records.
18. (Original) The method of claim 17, wherein the information comprises at least one of a step type and a step location, the step type and the step location identifying the step record.
19. (Original) The method of claim 18, wherein the step type describes the operation performed by one of the two or more applications at the time the new log entry is recorded.
20. (Original) The method of claim 18, wherein the step location describes a computer of at least one of the two or more applications.

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21. (Currently Amended) A ~~tangible~~-computer-readable storage medium containing a program which, when executed by a processor, performs an operation of maintaining a database for managing a process of a plurality of transactions through two or more applications in a business transaction environment, each application having at least one associated log file, each transaction being defined by one or more steps configured to complete the transaction, the operation comprising:

accessing each of the respective associated log files, wherein at least two of the associated log files are of different formats;

for each new log entry recorded in the respective associated log file being accessed:

(i) determining whether the new log entry comprises one or more required fields using mapping rules that describe a location and format of at least the one or more required fields in the respective associated log file;

(ii) extracting information from the new log entry only if the new log entry comprises the one or more required fields; and

(iii) storing the information as a plurality of transaction records to the database.

22. (Currently Amended) The ~~tangible~~-computer-readable storage medium of claim 21, further comprising:

determining whether the plurality of transaction records satisfies a condition; and
executing an action if the plurality of transactions satisfies the condition.

23. (Currently Amended) The ~~tangible~~-computer-readable storage medium of claim 21, wherein the one or more required fields comprises at least one of a transaction identifier, a step identifier, and a time stamp.

24. (Currently Amended) The ~~tangible~~-computer-readable storage medium of claim 21, wherein storing the information as a plurality of transaction records comprises storing the information to the database as one of a transaction record and a step record, the transaction record being defined by one or more step records.

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25. (Currently Amended) The ~~tangible~~-computer-readable storage medium of claim 21, wherein the information is extracted from the new log entry using the set of mapping rules providing the format and the location of the information in the new log entry.

26. (Currently Amended) The ~~tangible~~-computer-readable storage medium of claim 22, wherein the condition is whether a number of the plurality of transaction records indicative of active transactions exceeds a predefined limit.

27. (Currently Amended) The ~~tangible~~-computer-readable storage medium of claim 22, wherein the condition is whether any of the plurality of transaction records indicative of active transactions has a time duration exceeding a predefined time limit

28. (Currently Amended) The ~~tangible~~-computer-readable storage medium of claim 22, wherein executing the action comprises sending a notification message alerting the condition.

29. (Previously Presented) A computer, comprising:

a database maintenance program for managing a process of a plurality of transactions through two or more applications in a business transaction environment, each application having at least one associated log file, wherein at least two of the associated files are of different format and wherein each transaction is defined by one or more steps configured to complete the transaction; and

for each new log entry recorded in the associated log files, the transaction management program, when executed, performs an operation comprising:

determining whether the new log entry comprises one or more required fields using mapping rules that describe a location and format of at least the one or more required fields in the respective associated log file;

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extracting information from the new log entry only if the new log entry
comprises the one or more required fields; and
storing the information as a plurality of transaction records to the
database.

30. (Previously Presented) The computer of claim 29, further comprising:
determining whether the plurality of transaction records satisfies a condition; and
executing an action if the plurality of transactions satisfies the condition.